Format No: CP/TF/01

TEST REPORT OF PHYSICAL PROPERTIES OF CEMENT - 53 Grade

Lab ID	:	**CP-2017-05-24-05** **Date: 27-05-17**
Customer	:	Assistant Executive Engineer, Dasarahalli Sub Division, BBMP,
Address	:	Dasarahalli Sub Division, BBMP, Bangalore.
Project Name	:	Filling of Pot hole main & cross roads in Dasarahalli Ward No.15 Dasarahalli Sub Division.
Agency	:	Sri. G.N. Ramesh, No.01, 3rd Main, Gandhi Grama, 7th Cross, Maruthi Extension, Bangalore-560 021.
Customer's Reference	:	EE/DD/WO/149/16-17
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	24-05-17
Sample ID No	:	2017-05-24-05 /01
Sample Type	:	ACC 53grade
Reference to BIS codes	:	IS 12269 : 2013, 53 Grade Ordinary Portland cement Specification , IS 4031 (Part 1,2 3,4,5, 6,11):1988 IS 4031 Part 1 DETERMINATION OF FINENESS BY DRY SIEVING, Clause 4.4 IS 4031 Part 2, Determination of Fineness by Blaine Air Permeability Method, Clause 5 IS 4031 Part 3, Determination of Soundness, Clause 5,Clause 6 IS 4031 Part 4, Determination of Consistency of Standard Cement Paste, Clause 5 IS 4031 Part 5, Determination of Initial & Final Setting Time, Clause 5 IS 4031 Part 11,DETERMINATION OF DENSITY , Clause 6
Date of test	:	25-05-17
Environmental Conditions during test	:	Temperature: 26°C Humidity: 72%

Sl.No.	Physical properties	Results	Requirement as per IS 12269: 2013
1	Fineness by dry sieving (%)	2.42	–
2	Finess by Air permeablity method (m^2/kg,Min)	289.4	225m^2/kg, Min
3	Density (gm/cc)	3.12	–
4	Standard Consistency (%)	29.0%	Not specified
5	Initial Setting time	155 minutes	Not less than 30 minutes
6	Final Setting time	270 minutes	Not more than 600 minutes
7	Soundness (Le Chatelier's Method)	1.5mm	Not more than 10 mm

Note:

The results pertain to the samples received and tested.

All information furnished by Customer/Representative

Any correction in the report will make this report invalid

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Samples will be disposed after 90 days from the date of issue of test certificate

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R KARTHIK RECHAN
Authorized Signatory
Quality Manager

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Format No: CP/TF/01

TEST REPORT ON COARSE AGGREGATES

Lab ID	:	**CP-2017-05-24-05** **Date: 27-05-17**
Customer	:	Assistant Executive Engineer, Dasarahalli Sub Division, BBMP, Bangalore.
Address	:	Dasarahalli Sub Division, BBMP, Bangalore.
Project Name	:	Filling of Pot hole main & cross roads in Dasarahalli Ward No.15 Dasarahalli Sub Division.
Agency	:	Sri. G.N. Ramesh, No.01, 3rd Main, Gandhi Grama, 7th Cross, Maruthi Extension, Bangalore-560 021.
Customer's Reference	:	EE/DD/WO/149/16-17
Source of Sample	:	Sample supplied by Agency
Sample condition	:	Satisfactory
Date of Receipt	:	24-05-17
Sample ID No	:	2017-05-24-05 /02(a)
Sample Type	:	40mm down size coarse aggregate
Reference to BIS codes	:	IS: 383:2016 (Specification for Coarse and fine Aggregates) IS: 2386 :1963(Part - 1,3,4) RA2011 IS 2386 Part 1: Particle Size and Shape IS 2386 Part 3: Specific gravity, Density, Voids,Water Absorption IS 2386 Part 4: Mechanical Properties
Date of test	:	24-05-17

SIEVE ANALYSIS (PARTICLE SIZE DISTRIBUTION) OF 40MM DOWN COARSE AGGREGATE:

Total weight taken : 15000 grams

Sample No.	Sieve No.	Weight Retained in gms	Cumulative Weight Retained in gms	% Cumulative Weight Retained	% Passing	Required as per IS 383:2016
1	80 mm	0	0	0.0	100	100
2	40 mm	235	235	1.6	98.4	90-100
3	20 mm	7511	7746	51.6	48.4	30-70
4	10 mm	4102	11848	79.0	21.0	10-35
5	4.75 mm	2899	14747	98.3	1.7	0-5
6	Pan	253	15000	100.0	0	---

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TEST REPORT ON COARSE AGGREGATES

Lab ID	:	**CP-2017-05-24-05** **Date: 26-05-17**
Customer	:	Assistant Executive Engineer, Dasarahalli Sub Division, BBMP, Bangalore.
Address	:	Dasarahalli Sub Division, BBMP, Bangalore.
Project Name	:	Filling of Pot hole main & cross roads in Dasarahalli Ward No.15 Dasarahalli Sub Division.
Agency	:	Sri. G.N. Ramesh, No.01, 3rd Main, Gandhi Grama, 7th Cross, Maruthi Extension, Bangalore-560 021.
Customer Reference	:	EE/DD/WO/149/16-17
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	24-05-17
Sample ID No	:	2017-05-24-05 /02(b)
Sample Type/ Size	:	20mm down size coarse aggregate
Reference to BIS codes	:	IS: 383:2016 (Specification for Coarse and fine Aggregates) IS: 2386 :1963(Part - 1,3,4) RA2011 IS 2386 Part 1: Particle Size and Shape IS 2386 Part 3: Specific gravity, Density, Voids,Water Absorption IS 2386 Part 4: Mechanical Properties
Date of test	:	24-05-17

SIEVE ANALYSIS (PARTICLE SIZE DISTRIBUTION) OF 20MM DOWN COARSE AGGREGATE:

Total weight taken : 5000 grams

Sample No.	Sieve No.	Weight Retained in gms	Cumulative Weight Retained in gms	% Cumulative Weight Retained	% Passing	Required as per IS 383:2016
1	40 mm	0	0	0	100	100
2	20 mm	185	185	3.7	96.3	90-100
3	10 mm	2715	2900	58.0	42.0	25-55
4	4.75 mm	1905	4805	96.1	3.9	0-10
5	Pan	195	5000	100	0	–

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ಸಹಾಯಕ ಕಾರ್ಯಪಾಲಕ ಅಭಿಯಂತರು
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Format No: CP/TF/01

TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : **CP-2017-06-02-06** **Date: 05/06/2017**

Customer : Assistant Executive Engineer, Dasarahalli Sub Division, BBMP, Bangalore.

Address : Dasarahalli Sub Division, BBMP, Bangalore.

Project Name : Filling of Pot hole main & cross roads in Dasarahalli Ward No.15 Dasarahalli Sub Division.

Agency : Sri. G.N. Ramesh, No.01, 3rd Main, Gandhi Grama, 7th Cross, Maruthi Extension, Bangalore-560 021.

Customer's Reference : EE/DD/WO/149/16-17

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 02-06-18

Sample ID No : 2017-06-02-06 /01

Customer ID : M20 Concrete

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M20 / 7 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 05/06/2017

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	M20 Concrete	M20	29/05/2017	05/06/2017	150.46 X 149.28 X 151.89	22461	8.316	379.6	16.9	17.4
2	M20 Concrete	M20	29/05/2017	05/06/2017	151.36 X 151.69 X 151.91	22960	8.593	408.7	17.8	
3	M20 Concrete	M20	29/05/2017	05/06/2017	150.60 X 149.66 X 149.61	22538	8.390	394.4	17.5	

Note:

The results pertain to the samples received and tested.
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Authorized Signatory
Quality Manager

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TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : **CP-2017-06-02-06** **Date: 26/06/2017**

Customer : Assistant Executive Engineer, Dasarahalli Sub Division, BBMP, Bangalore.

Address : Dasarahalli Sub Division, BBMP, Bangalore.

Project Name : Filling of Pot hole main & cross roads in Dasarahalli Ward No.15 Dasarahalli Sub Division.

Agency : Sri. G.N. Ramesh, No.01, 3rd Main, Gandhi Grama, 7th Cross, Maruthi Extension, Bangalore-560 021.

Customer's Reference : EE/DD/WO/149/16-17

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 02-06-18

Sample ID No : 2017-06-02-06 /02

Customer ID : M20 Concrete

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M20 / 28 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 26/06/2017

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	M20 Concrete	M20	29/05/2017	26/06/2017	149.60 X 150.14 X 151.98	22461	8.224	523.3	23.3	22.8
2	M20 Concrete	M20	29/05/2017	26/06/2017	150.40 X 151.84 X 150.31	22837	8.552	518.4	22.7	
3	M20 Concrete	M20	29/05/2017	26/06/2017	149.93 X 151.06 X 150.60	22648	8.409	509.6	22.5	

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DETERMINATION OF FLAKINESS INDEX AND ELONGATION INDEX OF COARSE AGGREGATE(IS 2386 (Part 1) 1963 (RA 2007)

Lab ID	:	**CP-RW-2017-06-01-07** **Date: 03-06-17**
Customer	:	Assistant Executive Engineer, Dasarahalli Sub Division, BBMP, Bangalore.
Address	:	Dasarahalli Sub Division, BBMP, Bangalore.
Project Name	:	Filling of Pot hole main & cross roads in Dasarahalli Ward No.15 Dasarahalli Sub Division.
Agency	:	Sri. G.N. Ramesh, No.01, 3rd Main, Gandhi Grama, 7th Cross, Maruthi Extension, Bangalore-560 021.
Customer Reference	:	EE/DD/WO/149/16-17
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	01-06-17
Sample ID No	:	2017-06-01-07/01
Type of Mix	:	Coarse Aggregate for WMM (Wet Mix Macadam)
Date of test	:	01-06-17

Result:

Index	Percentage of Flakiness and Elongation Index	Secified limits as per MORTH specification table 400-12
Flakiness Index	10.2%	Combined Flakiness & Elongation Index for WMM is Maximum 35%
Elongation Index	11.9%	
Combined Flakiness and Elongation Index for WMM	22.1%	

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